

**Standard Flange Drilling Dimensions
FIBERBOND® 20HV Column Pipe**

Size	Pipe I.D. (in.)	Pipe O.D. (in.)	N.H.	Bolt (in.)	Hole (in.)	Flg B.C. (in.)	Flg O.D. (in.)
2	2.00	2.50	4	5/8	0.75	4.75	6.00
3	3.00	3.50	4	5/8	0.75	6.00	7.50
4	4.00	4.50	8	5/8	0.75	7.50	9.00
6	6.00	6.63	8	3/4	0.88	9.50	11.00
8	8.00	8.75	8	3/4	0.88	11.75	13.50
10	10.00	10.88	12	7/8	1.00	14.25	16.00
12	12.00	13.00	12	7/8	1.00	17.00	19.00
14	14.25	15.50	12	1	1.13	18.75	21.00
16	16.25	17.63	16	1	1.13	21.25	23.50
18	18.25	19.75	16	1 1/8	1.25	22.75	25.00
20	20.25	22.00	20	1 1/8	1.25	25.00	27.50
24	24.25	26.25	20	1 1/4	1.38	29.50	32.00

Size	Pipe I.D. (mm)	Pipe O.D. (mm)	N.H.	Bolt (mm)	Hole (mm)	Flg B.C. (mm)	Flg O.D. (mm)
50	50.8	63.5	4	16	19.1	120.7	152.4
80	76.2	88.9	4	16	19.1	152.4	190.5
100	101.6	114.3	8	16	19.1	190.5	228.6
150	152.4	168.3	8	19	22.2	241.3	279.4
200	203.2	222.3	8	19	22.2	298.5	342.9
250	254.0	276.2	12	22	25.4	362.0	406.4
300	304.8	330.2	12	22	25.4	431.8	482.6
350	362.0	393.7	12	25	28.6	476.3	533.4
400	412.8	447.7	16	25	28.6	539.8	596.9
450	463.6	501.7	16	29	31.8	577.9	635.0
500	514.4	558.8	20	29	31.8	635.0	698.5
600	616.0	666.8	20	32	34.9	749.3	812.8

**Special Flange Drilling Dimensions - Recommended Minimum B.C. & O.D.
FIBERBOND® 20HV Column Pipe**

Size	Pipe I.D. (in.)	Pipe O.D. (in.)	Bolt (in.)	Hole (in.)	Min. B.C. (in.)	Min. O.D. (in.)
2	2.00	2.50	1/2	0.63	3.81	=B.C.+ 1.31"
2	2.00	2.50	5/8	0.75	4.19	=B.C.+ 1.69"
3	3.00	3.50	1/2	0.63	4.81	=B.C.+ 1.31"
3	3.00	3.50	5/8	0.75	5.19	=B.C.+ 1.69"
4	4.00	4.50	1/2	0.63	5.81	=B.C.+ 1.31"
4	4.00	4.50	5/8	0.75	6.19	=B.C.+ 1.69"
6	6.00	6.63	1/2	0.63	7.94	=B.C.+ 1.31"
6	6.00	6.63	5/8	0.75	8.31	=B.C.+ 1.69"
6	6.00	6.63	3/4	0.88	8.50	=B.C.+ 1.88"
8	8.00	8.75	1/2	0.63	10.06	=B.C.+ 1.31"
8	8.00	8.75	5/8	0.75	10.44	=B.C.+ 1.69"
8	8.00	8.75	3/4	0.88	10.63	=B.C.+ 1.88"
10	10.00	10.88	5/8	0.75	12.56	=B.C.+ 1.69"
10	10.00	10.88	3/4	0.88	12.75	=B.C.+ 1.88"
10	10.00	10.88	7/8	1.00	13.00	=B.C.+ 2.13"
12	12.00	13.00	5/8	0.75	14.69	=B.C.+ 1.69"
12	12.00	13.00	3/4	0.88	14.88	=B.C.+ 1.88"
12	12.00	13.00	7/8	1.00	15.13	=B.C.+ 2.13"
14	14.25	15.50	3/4	0.88	17.38	=B.C.+ 1.88"
14	14.25	15.50	7/8	1.00	17.63	=B.C.+ 2.13"
14	14.25	15.50	1	1.13	17.88	=B.C.+ 2.38"
16	16.25	17.63	3/4	0.88	19.50	=B.C.+ 1.88"
16	16.25	17.63	7/8	1.00	19.75	=B.C.+ 2.13"
16	16.25	17.63	1	1.13	20.00	=B.C.+ 2.38"
18	18.25	19.75	7/8	1.00	21.88	=B.C.+ 2.13"
18	18.25	19.75	1	1.13	22.13	=B.C.+ 2.38"
18	18.25	19.75	1 1/8	1.25	22.38	=B.C.+ 2.63"

Bolt sizes have not been analyzed for design conditions. This table provides a dimensional check only for the minimum bolt circle and flange O.D. per bolt size. FRP flanges are spot-faced to fit a narrow-series washer. This spot-face is the limiting criteria in determining the minimum B.C. and flange O.D.